

Notice of Allowability

Application No.

10/734,905

Examiner

Sun J. Lin

Applicant(s)

HWANG ET AL.

Art Unit

2825

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendments & Remarks filed 06/02/2006.
2. ☒ The allowed claim(s) is/are 1-4,6-12,16,17 and 19, renumbered (37 CFR 1.126).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Applicants' representative Jonathan M. Hollander gave authorization for this examiner's amendment on August 14, 2006. The application has been amended, based on Amendment filed on 06/02/2006, as follows:

- Claim 1, line 7, change "function;" to **—function, wherein the second alternative netlist has a different gate configuration from the first alternative netlist;—**.
- Claim 1, line 8, change "a technology mapping" to **—the technology mapping—**.
- Claim 1, line 16, change "a technology mapping" to **—the technology mapping—**.
- Claim 1, line 17, before "optimizing" insert **—the—**.
- Claim 8, line 5, change "netlists" to **—netlist—**.
- Claim 8, line 6, after "selected", delete **—alternative—**.
- Claim 8, line 7, change "netlists" to **—netlist—**.
- Claim 8, line 9, before "results" insert **—the—**.
- Claim 8, line 9, change "a technology mapping" to **—the technology mapping—**.
- Claim 8, line 11, change "a technology mapping" to **—the technology mapping—**.
- Claim 8, line 11, change "selected mapping netlist" to **—selected netlist—**.
- Claim 8, line 12, before "optimizing" insert **—the—**.
- Claim 13 is deleted.
- Claim 14 is deleted.
- Claim 15 is deleted.
- Claim 18 is deleted.
- Claim 20 is deleted.

Reasons for Allowance

Claims 1 – 4, 6 – 12, 16, 17 and 19 are allowed over the prior art of record. An examiner's statement of reasons for allowance is given in the following:

Claims 1 – 4, 6 – 12, 16, 17 and 19 are allowed because the prior art does not teach or fairly suggest the following subject matter:

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- A method of computer aided design comprising: selecting one of a first alternative netlist or a second alternative netlist based on a comparison of a first mapping netlist with a second mapping netlist and based on design criteria, wherein the selected one of the corresponding first alternative netlist or second alternative netlist is a selected netlist, optimizing the selected netlist based on corresponding mapping netlist, and performing the technology mapping on the selected netlist after the optimizing in combination with other limitations recited in independent **Claim 1**;
- A method of logical synthesis comprising: selecting one of a first alternative netlist or a second alternative netlist as a selected netlist based on results of a technology mapping of the first alternative netlist and the second alternative netlist, optimizing the selected netlist based on the results of the technology mapping and performing the technology mapping on the selected netlist after the optimizing in combination with other limitations recited in independent **Claim 8**.

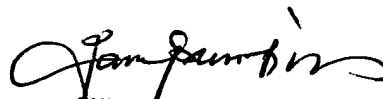
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sun J. Lin whose telephone number is (571) 272 - 1899. The examiner can normally be reached on Monday to Friday from 9:00am to 6:00pm.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Sun J. Lin
Primary Examiner
Art Unit 2825
August 14, 2006


SUN JAMES LIN
PRIMARY EXAMINER